

IN THE CLAIMS

1- 58 Canceled.

1 59. (previously presented) An apparatus for use while drilling a borehole, said apparatus  
2 comprising:

3 (a) a longitudinal member for rotating a drill bit and adapted to be conveyed  
4 in the borehole;

5 (b) an acoustic transmitter on a sleeve slidably coupled to said longitudinal  
6 member, and

7 (c) an acoustic receiver spaced apart from said acoustic transmitter, said  
8 acoustic transmitter disposed on a sleeve slidably coupled to said  
9 longitudinal member.

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1 60. (new) The apparatus of claim 59 wherein said sleeve in (b) is the same as the  
2 sleeve in (c).

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1 61. (new) The apparatus of claim 59 wherein said acoustic transmitter comprises a  
2 three-component transmitter.

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1 62. (previously presented) The apparatus of claim 59 wherein said acoustic receiver  
2 comprises a three-component receiver.

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1       63. (previously presented) The apparatus of claim 59 wherein said acoustic transmitter  
2                   comprises one of (A) a pulse transmitter, and, (B) a swept frequency transmitter.

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4       64. (currently amended) A method of determining a parameter of interest of an earth  
5                   formation penetrated by a borehole during drilling operations, the method  
6                   comprising:

- 7               (a)     conveying a bottom hole assembly (BHA) into the borehole, said BHA  
8                   including a longitudinal member for rotating a drill bit thereon;
- 9               (b)     maintaining an acoustic transmitter on said BHA in a substantially non-  
10                   rotating position and propagating acoustic signals into said formation;
- 11               (c)     maintaining an acoustic receiver on said BHA in a substantially non-  
12                   rotating position and receiving an acoustic signal resulting from  
13                   interaction reflection of said propagating signals with said formation from  
14                   a seismic reflection in the vicinity of said borehole; and
- 15               (d)     determining from said received acoustic signals said parameter of interest.

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1       65. canceled (previously presented) The method of claim 64 wherein said received  
2                   acoustic signals comprise reflections from a seismic reflector in the vicinity of  
3                   said borehole.

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1       66. (currently amended) The method of claim 65 64 wherein said parameter of interest  
2                   comprises a distance to said seismic reflector, reflector.

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1 67. (previously presented) The method of claim 66 further comprising guiding said BHA  
2 at least partially in response to said determined distance.

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1 68. (previously presented) The method of claim 64 further comprising maintaining said  
2 acoustic transmitter and said acoustic receiver at a specified distance from each  
3 other.

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